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U.S. ATOMIC ENERGY COMM
TWX UNIT

FM LOS ALAMOS SCIENTIFIC LAB LOS ALAMOS NMEX

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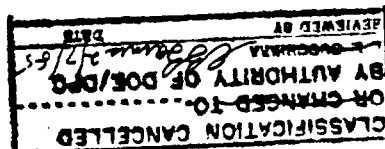
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FOR JOHN C BUGHER DIRECTOR DIVISION OF BIOLOGY AND MEDICINE CMM
INFO NORIS BRADBURY CMM JIG DIVISION FILES CMM W H LANGHAM CMM
FROM THOMAS L SHIPMAN MD HEALTH DIVISION LEADER PD WE HAVE LOCAL
APPROVAL FOR FOLLOWING PROPOSAL CLN TO COLLECT AND ANALYZE URINE
SAMPLES FROM NATIVES AND AIR WEATHER SERVICE PERSONNEL PD REASONS CLN
TO CORRELATE WITH DATA COLLECTED AT GREENHOUSE AND UK ON MICE AND
MONKEYS IN DETERMINING THE RELATIVE EXTERNAL AND INTERNAL HAZARDS OF
RADIOACTIVE DEBRIS FROM ATOMIC BOMBS PD IN VIEW OF THE EXTENSIVE
EXPERIENCE OF THIS LABORATORY IN METHODOLOGY OF THIS PROBLEM AND THE
AVAILABILITY OF TRAINED PERSONNEL AND FACILITIES PLUS LIAISON WITH THE
RADIOCHEMICAL GROUP OF THE TEST DIVISION CMM IT IS BELIEVED THAT A
MAXIMUM OF INFORMATION CAN BE ACCUMULATED WITH A MINIMUM OF EFFORT
PD IN VIEW OF THE CLOSE SIMILARITY OF THIS SITUATION TO THE CONTEMPLATED
PROBLEMS IN OPERATION GABRIEL AN INTENSIVE EFFORT TO OBTAIN ALL
POSSIBLE DATA SEEMS JUSTIFIED PD PROPOSED EXPERIMENTS CLN ONE PD
URINE COLLECTION PD ABEL PD TWO CONSECUTIVE TWO FOUR HOUR URINE SAMPLES
WILL BE COLLECTED FROM EACH OF THE AIR WEATHER SERVICE PERSONNEL
INVOLVED PD END OF PAGE ONE



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PAGE TWO UWFJA 201A

BAKER PD TWO CONSECUTIVE TWO FOUR HOUR POOLED URINE SAMPLES WILL BE COLLECTED FROM ABLE GROUP OF EXPOSED NATIVES PD IT IS DESIRED TO HAVE A TOTAL VOLUME OF TEN LITERS PER SAMPLE PD TWO PD URINE ANALYSIS PD ABLE PD ANALYSIS FOR BARIUM LANTHANUM AT THIS TIME PD THESE NUCLIDES ARE THE MOST ABUNDANT OF THE FISSION PRODUCTS PD THE CHEMICAL METHOD IS STANDARD AT THIS LABORATORY AND FORTUNATELY THESE NUCLIDES ARE VERY IMPORTANT FROM THE POINT OF VIEW OF INTERNAL HAZARD PD BAKER PD ANALYSIS FOR PLUTONIUM PD THE METHOD IS STANDARD PD PU IS VERY IMPORTANT IN ANY CONSIDERATION OF INTERNAL HAZARD PD FROM BOTH OF THESE MEASUREMENTS AND FROM DATA FROM THE RADIOCHEMICAL GROUP INFORMATION CAN BE PUT IN TERMS OF BOMB FRACTION PD CHARLIE PD ON THE BASIS OF THE ABOVE DATA FURTHER ANALYSES CAN BE MADE OBTAINING INFORMATION ON FRACTIONATION AND UPTAKE PD THESE WOULD POSSIBLY INCLUDE MOLYBDENUM AND CERTAINLY AT LATER TIMES CMM STRONTIUM PD DOG PD A SPOT ANALYSIS FOR GROSS FISSION PRODUCT ACTIVITY WOULD BE MADE BY THE USE OF THE ARM COUNTER BY PLACING THE ENTIRE URINE SAMPLE IN THE COUNTER PD ONE MAN WILL BE SENT WITH END OF PAGE TWO

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NECESSARY EQUIPMRNT TO KWAJALEIN TO MAKE THE URINE COLLECTION AND TO
COURIER THE SAMPLES BACK TO LOS ALAMOS PD IT IS IMPERATIVE THAT THIS
INDIVIDUAL HAVE AUTHORITY TO MAKE SUCH COLLECTIONS FOR THE PURPOSES
NOTED ABOVE AND TO HAVE FULL SUPERVISION OVER THE COLLECTION PD IT IS
NECESSARY BECAUSE OF TIME SINCE EXPOSURE CMM RADIOACTIVE DECAY AND
EXCRETION RATES THAT THE COLLECTION BE DONE AS SOON AS POSSIBLE PD IT
IS PREFERRED THAT THE SAMPLES BE BACK AT LOS ALAMOS BY THE SEVENTEENTH
OF MARCH TO START ANALYSIS PD WE WOULD ALSO LIKE YOUR BLESSING ON THIS
PROJECT AND REQUEST THAT YOU ADVISE KRONKITE OF YOUR APPROVAL OF THIS
PROJECT PD WITH HIS COLLABORATION IN OBTAINING THE SAMPLES WE SHOULD
NOT INTERFERE ANY FURTHER WITH HIS WORK ALTHOUGH WE WOULD BE HAPPY TO
OFFER HIM ANY ASSISTANCE THAT MIGHT BE REQUIRED PD PAYNE HARRIS AND
ITEM EXPECT TO LEAVE FOR KWAJALEIN ABOUT THE END OF THE WEEK PD REF
CLN ONE ZERO NINE PD END OF MESSAGE

CCC SIXTH WORD SEVENTH TO LAST LINE SHUD READ PD RPT PD

XMYX

11/0330Z

END PLS ACK TOTS AND THNX DM

RECD OK END EAP 11/0350Z

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